# Virginia Coastal Nonpoint Source Program

- Where are we now?
- Where we are going?

### **Building on Existing Programs**

- Chesapeake Bay Program
- Chesapeake Bay Preservation Act
- Established Nonpoint Source Program
- Strong Coastal Zone Management Program

# NPS Program Enhancements

- Silvicultural Water Quality Law
- Agricultural Stewardship Act
- Septic Drainfield Regulations
- Clean Marina Program

# Agriculture Projects



4 projects completed (2 to meet irrigation water management condition)



Irrigation Management Workshops



Chemigation Demonstration & update to Farm and Home Water Quality Assessment Manual

## Urban Projects



14 projects completed (3 to meet program conditions)



Update Stafford County Stormwater Ordinance & Design Manual



Develop a Model Stormwater Ordinance & database



Shoreland Planning Protocol (2 years)



## Urban Projects (cont.)



Develop GIS for VDH Shellfish Sanitation



MPPDC Onsite Septic Program (2 years)



Local Government Projects (3 years – most recent through an RFP process)

# The Economic Benefits of Better Site Design In Virginia





Virginia Department of Conservation and Recreation 203 Governor Street, Suite 206 Richmond, VA 23219-2094

Prepared by:
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Where are we now? Where are

Where are we now? Where are we going?

## Marina Projects

Two projects were completed to meet program conditions



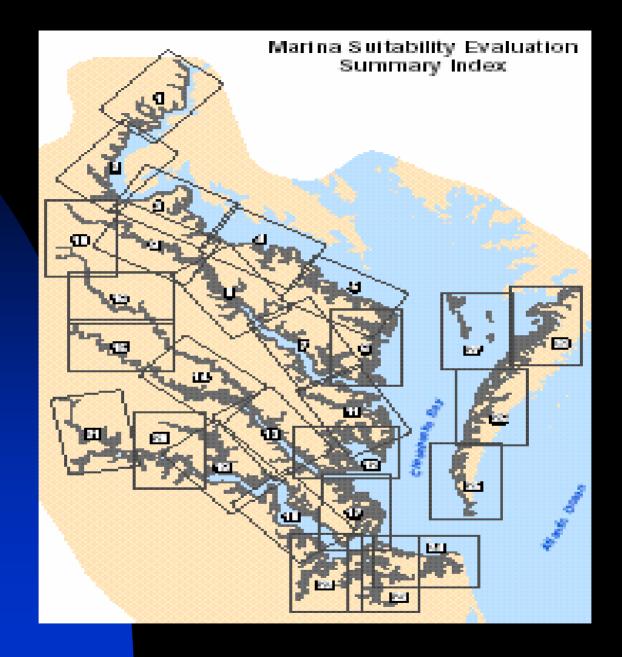
Virginia Clean Marina Program

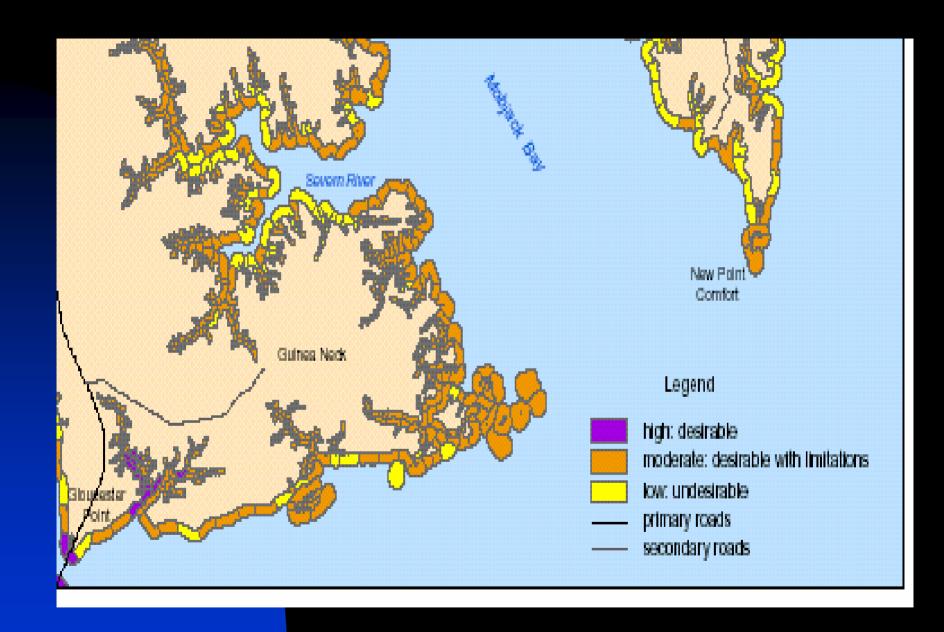
Marina Siting Suitability Tool



# The Virginia Clean Marina Guidebook







### Virginia Stream Restoration Design Manual

### Virginia Stream Restoration Design Manual

November 24

Department of Conservation and Recreation Division of Soil and Water Conservation 203 Governor Street, Suite 206 Richmond, Virginia 23219-2094 Phone: 804-786-2064







#### What is Included In Manual

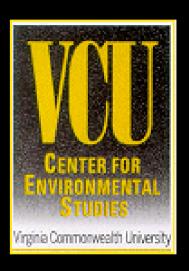
- Chapter 1 Introduction and Permits
- Chapter 2 Design Guidelines
- Chapter 3 Costs
- Chapter 4 Practices and Graphics
- Appendices

# How Are Practices Organized?

- Bank Protection
- Bank Stabilization
- Grade Control Structures
- FlowDeflection/ConcentrationStructures
- Temporary Flow Diversion

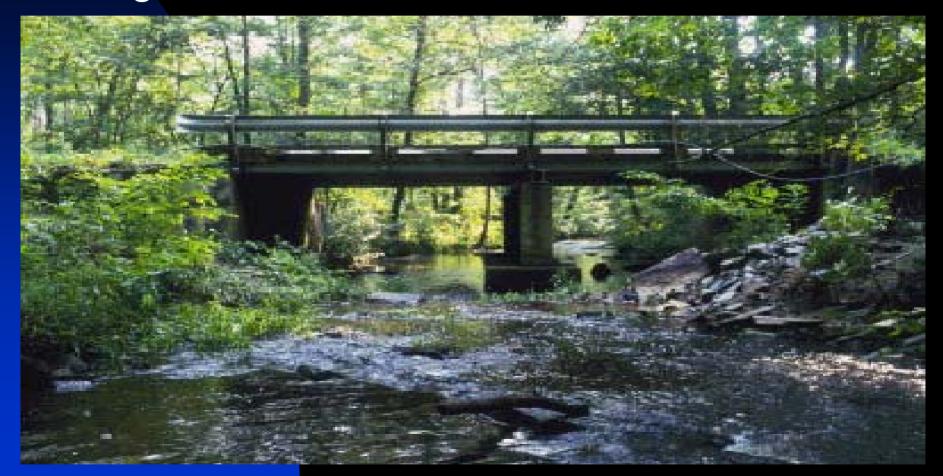
# Stream Research in Virginia's Coastal Zone

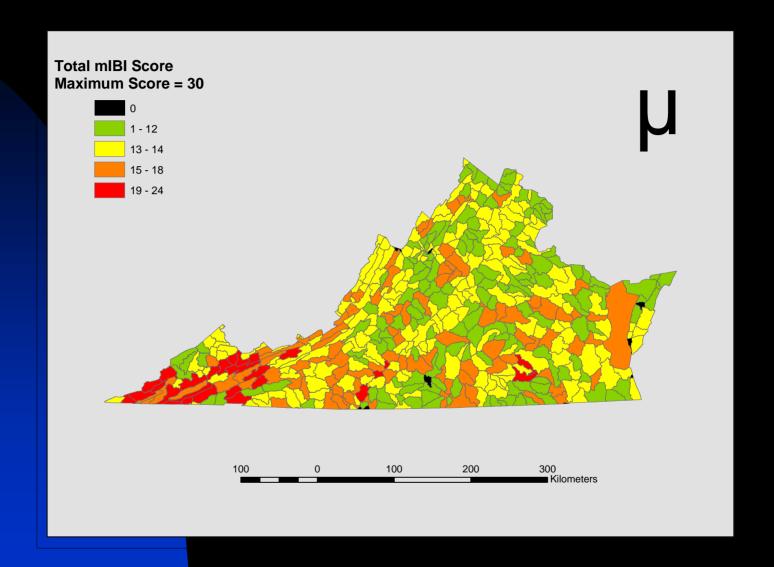






#### Pilot Study to Develop Technical Standards and Procedures for Stream Reference Reach Establishment in Virginia's Coastal Zone





# Model Reference Stream Development (Phase I)

#### Data Collection

- Sampled randomly-selected stream reaches
- Fish Electrofishing and IBI protocol
- Macroinvertebrates Modified RBP III protocol
- Stream Habitat EPA Rapid habitat assessment
- Fluvial Geomorphology Rosgen protocol

#### Phase II (2003-2004)

#### CZ Stream Assessment

- VCU partnering with other state agencies to develop and implement an objective and quantitative survey of stream-dependent living resources in the CZ of Virginia
- -revise and validate protocols as a tool for regional and statewide stream assessment
- refine Virtual Stream model for the Virginia CZ, using new data collected from approximately 175 coastal stream segments in 70 HUCs

#### Phase III (2004-2006)

#### CZ Stream Assessment

- Refinement of INSTAR, a user-friendly GIS-based database (INteractive STream Assessment Resource)
- Enhancement and expansion of stream assessment database
- -Facilitate use of tool for targeting and assessing program efficacy

## Local Government Projects

#### **Currently Supported Activities**

- **Stormwater management**
- Septic system programs
- Plan review & data collection
- Stream assessments
- **Tool development**

- **Watershed planning**
- **Ordinance updates**
- **Coordination**
- **Outreach/Education**
- Capacity building

# Capitalize on Program Strengths

- Technology Based
- Proactive
- Equitable and Comprehensive
- Protects and Restores
- Enforceable Policies and Mechanisms

# Targeting Watershed Protection

- Utilize INSTAR stream assessment to identify high quality streams
- Establish program linkages to bring focus to water quality protection
- Provide technical support and leverage funding to support watershed planning

### Next Steps

- One of the few programs that has a water quality protection focus
- Limited funding, staffing, and program recognition is a major impediment
- By focusing on watershed planning and protection it brings focus to the program